

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR2004/000206

A. CLASSIFICATION OF SUBJECT MATTER

IPC7 A24D 1/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

A24D1/04; A24B15/00; A24B15/18; A24B15/28; A24D3/04; B01D47/00; B01J8/00; C01B17/16; C01B17/20

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean Patent and Applications for Invention since 1975

Korean Utility Models and Applications for Utility Models since 1975

Japanese Utility Models and Applications for Utility Models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKIPASS, WPI, USPTO, INSPECT "cigarette, filter, transparent, tipping, ventilation"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|---|-----------------------|
| Y | US 5396909 A (R. J. Reynolds Tobacco Co., US) 14 Mar 1995 - see Figure 4, 5 and column 6 line 25 to 53 | 1, 7, 8 |
| Y | US 2002/0074010 A1 (Rothmans, Benson & Hedges Inc., CA) 20 Jun 2002 - see Figure 24 and 25, Identification number [0091] to [0093] | 1, 9 |
| A | US 6209547 B1 (Philip Morris Inc., USA) 03 Apr 2001 - see Figure 5 - 8, column 4 line 40-65, column 5 line 20 - 47 | 1 - 9 |
| A | US 6311696 B1 (British-American Tobacco Co. Ltd., GB) 06 Nov 2001 - see the whole document | 1 - 9 |
| A | US 5622190 A (Philip Morris Inc. US) 22 Apr 1997 - see Figure 5, column 4 line 61 to column 5 line 25 | 1 - 9 |

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family


Date of the actual completion of the international search

11 JUNE 2004 (11.06.2004)

Date of mailing of the international search report

11 JUNE 2004 (11.06.2004)

Name and mailing address of the ISA/KR

 Korean Intellectual Property Office
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR2004/000206

| Patent document cited in search report | Publication date | Patent family member(s) | Publication date |
|---|---------------------|---|--|
| US 5396909 A | 14 Mar 1995 | EP 0658319 A1 JP 7203934 A | 21 Jun 1995 08 Aug 1995 |
| US 2002/0074010 A1 | 20 Jun 2002 | AU 4612497 A CA 2226685 A1 EP 0944337 A1 KR 2000049168 A NZ 334763 A WO 9816125 A1 | 11 May 1981 15 Apr 1998 20 Sep 1999 25 Jul 2000 27 Oct 2000 23 Apr 1998 |
| US 6209547 B1 | 03 Apr 2001 | AU 1809900 A BR 9915815 A CA 2349008 A1 EP 1128740 A1 WO 0025611 A1 | 22 May 2000 21 Aug 2001 11 May 2000 05 Sep 2001 11 May 2000 |
| US 6311696 B1 | 06 Nov 2001 | AU 649537 B2 CA 2069078 A1 EP 0514804 B1 | 26 May 1994 21 Nov 1992 10 Oct 1995 |
| US 5622190 A | 22 Apr 1997 | CA 2031727 C DE 690151E5T T3 EP 0474940 B2 JP 2767322B2 B2 KR 175139 B1 | 10 Apr 2001 09 Mar 2000 06 Oct 1999 18 Jun 1998 18 Feb 1999 |

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: 4
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
Due to the lack of technical constitutions in the said claim, no meaningful search could be carried on.
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any addition fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.